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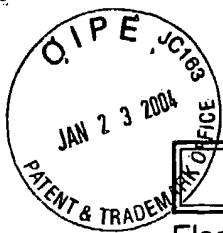
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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Controlling Access to Multiple Memory Zones in an Isolated Execution Environment
Application Number:	10/683542
Confirmation Number:	2621
First Named Applicant:	Carl Ellison
Attorney Docket Number:	42P09654C
Art Unit:	2186
Examiner:	Behzad Peikari
Search string:	( 20010021969 or 20010027527 or 20010037450 or 20030018892 or 4037214 or 4162536 or 4247905 or 4276594 or 4278837 or 4307447 or 4319323 or 4347565 or 4366537 or 4521852 or 4571672 or 4759064 or 4795893 or 4825052 or 4907270 or 4907272 or 4910774 or 5007082 or 5022077 or 5075842 or 5079737 or 5139760 or 5255379 or 5293424 or 5317705 or 5319760 or 5386552 or 5421006 or 5434999 or 5437033 or 5442645 or 5455909 or 5459867 or 5459869 or 5473692 or 5479509 or 5504922 or 5511217 or 5522075 or 5528231 or 5533126 or 5566323 or 5568552 or 5606617 or 5615263 or 5628022 or 5657445 or 5717903 or 5720609 or 5721222 or 5729760 or 5737604 or 5737760 or 5757919 or 5764969 or 5796835 or 5796845 or 5805712 or 5825875 or 5835594 or 5844986 or 5852717 or 5854913 or 5867577 or 5872994 or 5890189 or 5900606 or 5901225 or 5903752 or 5937063 or 5953502 or 5970147 or 5978481 or 5987557 or 6014745 or 6055637 or 6058478 or 6061794 or 6075938 or 6085296 or 6092095 or 6101584 or 6115816 or 6125430 or 6148379 or 6158546 or 6175925 or 6178509 or 6182089 or 6192455 or 6205550 or 6212635 or 6222923 or 6249872 or 6252650 or 6269392 or 6272533 or 6272637 or 6282651 or 6282657 or 6292874 or 6301646 or 6308270 or 6314409 or 6321314 or 6330670 or 6339815 or 6339816 or 6357004 or 6363485 or 6374286 or 6374317 or 6378072 or 6389537 or 6397242 or 6412035 or 6421702 or 6435416 or 6445797 or 6463535 or 6463537 or

6499123 or 6505279 or 6507904 or 6535988 or  
6557104 or 6633963 or 6633981 ).pn.

## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
B2	1	20010021969	2001-09-13	Burger, Stephen G., et al.			
B1	2	20010027527	2001-10-04	Khidekel, Yuri , et al.			
A	3	20010037450	2001-11-01	Metliitski, Evgueny A., et al.			
A	4	20030018892	2003-01-23	Tello, Jose			
A	5	4037214	1997-07-09	Birney, Richard E., et al.			
M	6	4162536	1979-07-24	Morley, Richard E.			
G	7	4247905	1981-01-27	Yoshida, Yukihiro , et al.		711	166
G	8	4276594	1981-06-30	Morley, Richard E.			
A	9	4278837	1981-07-14	Best, Robert M.			
A	10	4307447	1981-12-22	Provanzano, Salvatore R., et al.			
A	11	4319323	1982-03-09	Ermolovich, Thomas R., et al.			
G	12	4347565	1982-08-31	Kaneda, Saburo , et al.			
A	13	4366537	1982-12-28	Andrew, R. H., et al.			
G	14	4521852	1985-06-04	Gutttag, Karl M.			
M	15	4571672	1986-02-18	Hatada, Minoru , et al.			
M	16	4759064	1988-07-19	Chaum,			
M	17	4795893	1989-01-03	Ugon, Michael			
M	18	4825052	1989-04-25	Chemin, Francois , et al.			
A	19	4907270	1990-03-06	Hazard, Michel			
G	20	4907272	1990-03-06	Hazard, Michel			
G	21	4910774	1990-03-20	Barakat, Simon			
A	22	5007082	1991-04-09	Cummins, Mary T.			
A	23	5022077	1991-06-04	Bealkowski, Richard , et al.			
G	24	5075842	1991-12-24	Lai, Konrad K.			
G	25	5079737	1992-01-07	Hackbarth, Holden G.		711	164
G	26	5139760	1994-06-07	Mason, Andrew H., et al.			
G	27	5255379	1994-03-08	Melo, Michael D.			
G	28	5293424	1994-03-08	Hotley, Thomas O., et al.			
G	29	5317705	1994-05-31	Gannon, Patrick M., et al.			

4	30	5319760	1994-06-07	Mason, Andrew H., et al.
4	31	5386552	1995-01-31	Garney, John L.
4	32	5421006	1995-05-30	Jablon, David P., et al.
4	33	5434999	1995-07-18	Goire, Christian , et al.
4	34	5437033	1995-07-25	Inoue, Taro , et al.
4	35	5442645	1995-08-15	Ugon, Michel , et al.
4	36	5455909	1995-10-03	Blomgren, James S., et al.
4	37	5459867	1995-10-17	Adams, Phillip M., et al.
4	38	5459869	1995-10-17	Spilo, Michael L.
4	39	5473692	1995-12-05	Davis, Derek L.
4	40	5479509	1995-12-26	Ugon, Michael
4	41	5504922	1996-04-02	Seki, Yukihiro , et al.
4	42	5511217	1996-04-23	Nakajima, Atsushi , et al.
4	43	5522075	1996-05-28	Robinson, Paul T., et al.
4	44	5528231	1996-06-18	Patarin, Jacques
4	45	5533126	1996-07-02	Hazard, Michel , et al.
4	46	5566323	1996-10-15	Ugon, Michel
4	47	5568552	1996-10-22	Davis, Derek L.
4	48	5606617	1997-02-25	Brands, Stefanus A.
4	49	5615263	1997-03-25	Takahashi, Richard J.
4	50	5628022	1997-05-06	Ueno, Masahiro , et al.
4	51	5657445	1997-08-12	Pearce, John J.
4	52	5717903	1998-02-10	Bonola, Thomas J.
4	53	5720609	1998-02-24	Pfefferle, William C.
4	54	5721222	1998-02-24	Bernstein, Peter R., et al.
4	55	5729760	1998-03-17	Poisner, David I.
4	56	5737604	1998-04-07	Miller, David A., et al.
4	57	5737760	1998-08-07	Grimmer, Jr., George G., et al.
4	58	5757919	1998-05-26	Herbert, Howard C., et al.
4	59	5764969	1998-06-09	Kahle, James A.
4	60	5796835	1998-08-18	Saada, Charles
4	61	5796845	1998-08-18	Serikawa, Mitsuhiko , et al.
4	62	5805712	1998-09-08	Davis, Derek L.
4	63	5825875	1998-10-20	Ugon, Michel
4	64	5835594	1998-11-10	Albrecht, Mark , et al.
4	65	5844986	1998-12-01	Davis, Derek L.

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2	66	5852717	1998-12-22	Bhide, Chandrashekhar W., et al.
4	67	5854913	1998-12-29	Goetz, John W., et al.
4	68	5867577	1999-02-02	Patarin, Jacques
4	69	5872994	1999-02-16	Akiyama, Shin-Ichiro , et al.
2	70	5890189	1999-03-30	Nozue, Hiroshi , et al.
4	71	5900606	1999-05-04	Rigal, Vincent
4	72	5901225	1999-05-04	Ireton, Mark A., et al.
4	73	5903752	1999-05-11	Dingwall, Thomas J., et al.
4	74	5937063	1999-08-10	Davis, Derek L.
4	75	5953502	1999-09-14	Helbig, Sr., Walter A.
4	76	5970147	1999-10-19	Davis, Derek L., et al.
4	77	5978481	1999-11-02	Ganesan, Ramanan V., et al.
2	78	5987557	1999-11-16	Ebrahim, Zahir
4	79	6014745	2000-01-11	Ashe, Vincent
4	80	6055637	2000-04-25	Hudson, Jerome D., et al.
4	81	6058478	2000-05-02	Davis, Derek L.
4	82	6061794	2000-05-09	Angelo, Michael E.
4	83	6075938	2000-06-13	Bugnion, Edouard , et al.
2	84	6085296	2000-07-04	Karkhanis, Nitin Y., et al.
4	85	6092095	2000-07-18	Maytal, Benjamin
2	86	6101584	2000-08-08	Satou, Mitsugu , et al.
4	87	6115816	2000-09-05	Davis, Derek L.
4	88	6125430	2000-09-26	Noel, Karen L., et al.
4	89	6148379	2000-11-14	Schimmel, Curt F.
4	90	6158546	2000-12-12	Hanson, Roger D., et al.
4	91	6175925	2001-01-16	Nardone, Joseph M., et al.
4	92	6178509	2001-01-23	Nardone, Joseph M.
4	93	6182089	2001-01-30	Ganapathy, Narayanan , et al.
4	94	6192455	2001-02-20	Bogin, Zohar , et al.
4	95	6205550	2001-03-20	Nardone, Joseph M., et al.
4	96	6212635	2001-04-03	Reardon, David C.
4	97	6222923	2001-04-24	Schwenk, Joerg
2	98	6249872	2001-06-19	Wildgrube, Frank L., et al.
4	99	6252650	2001-06-26	Nakaumra, Kouji
4	100	6269392	2001-07-31	Cotichini, Christian , et al.
4	101	6272533	2001-08-07	Browne, Hendrik A., et al.

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709	213
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4	102	6272637	2001-08-07	Little, Wendell L., et al.	713	194
4	103	6282651	2001-08-28	Ashe, Vincent		
4	104	6282657	2001-08-28	Kaplan, Michael M., et al.		
4	105	6292874	2001-09-18	Barnett, Philip C.	711	153
4	106	6301646	2001-10-09	Hostetter, Matthew J.		
4	107	6308270	2001-10-23	Guthery, Scott B., et al.		
4	108	6314409	2001-11-06	Schneck, Paul B., et al.		
4	109	6321314	2001-11-20	Van Dyke, Korbin S.		
4	110	6330670	2001-12-11	England, Paul , et al.		
4	111	6339815	2002-01-15	Feng, Eugene		
4	112	6339816	2002-01-12	Bausch, Jean		
4	113	6357004	2002-03-12	Davis, Derek L.		
4	114	6363485	2002-03-26	Adams, Carlisle		
4	115	6374286	2002-04-16	Gee, John K., et al.		
4	116	6374317	2002-04-16	Ajanovic, Jasmin , et al.	710	105
4	117	6378072	2002-04-23	Collins, Thomas , et al.		
4	118	6389537	2002-05-14	Davis, Derek L., et al.		
4	119	6397242	2002-05-28	Devine, Scott W., et al.		
4	120	6412035	2002-06-25	Webber, Victor		
4	121	6421702	2002-07-16	Gulick, Dale E.		
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4	123	6445797	2002-09-03	McGough, Paul , et al.		
4	124	6463535	2002-10-08	Drews, Paul C., et al.		
4	125	6463537	2002-10-08	Tello, Jose A.		
4	126	6499123	2002-12-24	McFarlane, Harold L., et al.		
4	127	6505279	2003-01-07	Phillips, Gary , et al.		
4	128	6507904	2003-01-14	Ellison, Carl M., et al.		
4	129	6535988	2003-03-18	Poisner, David L.		
4	130	6557104	2003-04-29	Vu, Son T., et al.		
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## Remarks

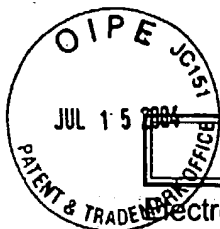
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Signature

Examiner Name	Date
	9/19/04



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
Stylesheet Version v18.0

Title of Invention	Controlling Access to Multiple Memory Zones in an Isolated Execution Environment						
Application Number:	10/683542						
Confirmation Number:	2621						
First Named Applicant:	Carl Ellison						
Attorney Docket Number:	42P09654C						
Art Unit:	2186						
Examiner:	Behzad Peikari						
Search string:	( 20010027511 or 20020007456 or 20020023032 or 20020147916 or 20020166061 or 20020169717 or 20030074548 or 20030115453 or 20030126442 or 20030126453 or 20030159056 or 20030188179 or 20030196085 or 20040117539 or 3699532 or 3996449 or 4207609 or 4319233 or 4403283 or 4419724 or 4430709 or 4802084 or 4975836 or 5187802 or 5230069 or 5237616 or 5287363 or 5295251 or 5361375 or 5469557 or 5506975 or 5555385 or 5555414 or 5560013 or 5564040 or 5574936 or 5582717 or 5604805 or 5633929 or 5668971 or 5684948 or 5706469 or 5740178 or 5752046 or 5809546 or 5825880 or 5919257 or 5935242 or 5935247 or 5956408 or 5978475 or 6035374 or 6044478 or 6088262 or 6093213 or 6108644 or 6131166 or 6173417 or 6175924 or 6188257 or 6199152 or 6275933 or 6282650 or 6327652 or 6378068 or 6397379 or 6529909 or 6560627 or 6609199 or 6615278 or 6651171 or 6678825 or 6684326 ).pn.						
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
NY	1	20010027511	2001-10-04	Wakabayashi, Masaki , et al.			
NY	2	20020007456	2002-01-17	Peinado, Marcus , et al.			
NY	3	20020023032	2002-02-21	Pearson, Siani L., et al.			



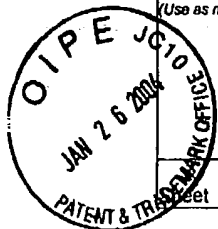
4	4	20020147916	2002-10-10	Strongin, Geoffrey S., et al.
d	5	20020166061	2002-11-07	Falik, Ohad , et al.
4	6	20020169717	2002-11-14	Challener, David C.
4	7	20030074548	2003-04-17	Cromer, Daryl C., et al.
4	8	20030115453	2003-06-19	Grawrock, David W.
4	9	20030126442	2003-07-03	Glew, Andrew F., et al.
4	10	20030126453	2003-07-03	Glew, Andrew F., et al. .
4	11	20030159056	2003-08-21	Cromer, Daryl C., et al.
4	12	20030188179	2003-10-02	Challener, David C., et al.
4	13	20030196085	2003-10-16	Lampson, Butler W., et al.
4	14	20040117539	2004-06-17	Bennett, Steve , et al.
4	15	3699532	1972-10-17	Schaffer, Harry G., et al.
4	16	3996449	1976-12-07	Attanasio, Clement R., et al.
4	17	4207609	1980-06-10	Luiz, Fernando A., et al.
4	18	4319233	1982-03-09	Matsuoka, Michihiro , et al.
4	19	4403283	1983-09-06	Myntti, Jon N., et al.
4	20	4419724	1983-12-06	Branigin, Michael H., et al.
4	21	4430709	1984-02-07	Schleupen, Richard , et al.
4	22	4802084	1989-01-31	Ikegaya, Hiroshi , et al.
4	23	4975836	1990-12-04	Hirosawa, Toshio , et al.
4	24	5187802	1993-02-16	Inoue, Taro , et al.
4	25	5230069	1993-02-16	Brelsford, David P., et al.
4	26	5237616	1993-08-17	Abraham, Dennis G., et al.
4	27	5287363	1994-02-15	Wolf, Paul I., et al.
4	28	5295251	1994-03-15	Wakui, Fujio , et al.
4	29	5361375	1994-11-01	Ogi, Yoshifumi
4	30	5469557	1995-11-21	Salt, Tom , et al.
4	31	5506975	1996-04-09	Onodera, Osama
4	32	5555385	1996-09-10	Osisek, Damian L.
4	33	5555414	1996-09-10	Hough, Roger E., et al.
4	34	5560013	1996-09-24	Scalzi, Casper A., et al.
4	35	5564040	1996-10-08	Kubala, Jeffrey P.
4	36	5574936	1996-11-12	Ryba, Edward G., et al.
4	37	5582717	1996-12-10	Di Santo, Dennis E.
4	38	5604805	1997-02-18	Brands, Stefanus A.
4	39	5633929	1997-05-27	Kaliski, Jr., Burton S.

4	40	5668971	1997-11-16	Neufeld, E. D.
9	41	5684948	1997-11-04	Johnson, James S., et al.
9	42	5706469	1998-01-06	Kobayashi, Souichi
4	43	5740178	1998-04-14	Jacks, Steven A., et al.
4	44	5752046	1998-05-12	Oprescu, Florin , et al.
9	45	5809546	1998-09-15	Greenstein, Paul G., et al.
4	46	5825880	1998-10-20	Sudia, Frank W., et al.
9	47	5919257	1999-07-06	Trostle, Jonathan
2	48	5935242	1999-08-10	Madany, Peter W., et al.
9	49	5935247	1999-08-10	Pai, Hsin-Ying , et al.
9	50	5956408	1999-09-21	Arnold, Todd W.
4	51	5978475	1999-11-02	Schneier, Bruce , et al.
4	52	6035374	2000-03-07	Panwar, Ramesh , et al.
1	53	6044478	2000-03-28	Green, Daniel W.
1	54	6088262	2000-07-11	Nasu, Hiroaki
4	55	6093213	2000-07-25	Favor, John G., et al.
1	56	6108644	2000-08-22	Goldschlag, David M., et al.
9	57	6131166	2000-10-10	Wong-Isley, Becky
4	58	6173417	2001-01-09	Merrill, John W.
4	59	6175924	2001-01-16	Arnold, Todd W.
9	60	6188257	2001-02-13	Buer, Mark L.
4	61	6199152	2001-03-06	Kelly, Edmund J., et al.
9	62	6275933	2001-08-14	Fine, Michael , et al.
9	63	6282650	2001-08-28	Davis, Derek L.
2	64	6327652	2001-12-04	England, Paul , et al.
9	65	6378068	2002-04-23	Foster, Mark J.
9	66	6397379	2002-05-28	Yates, Jr., John S., et al.
4	67	6529909	2003-03-04	Bowman-Amuah, Michel K.
9	68	6560627	2003-05-06	McDonald, Michael F., et al.
9	69	6609199	2003-08-19	DeTreville, John
9	70	6615278	2003-09-02	Curtis, Bryce A.
9	71	6651171	2003-11-18	England, Paul , et al.
3	72	6678825	2004-01-13	Ellison, Carl M., et al.
3	73	6684326	2004-01-27	Cromer, Daryl C., et al.

Signature

9/19/04

Substitute for form 1449A/PTO  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)



Sheet 1 of 3

Complete if Known

Applicant Number	10/683542
Filing Date	October 10, 2003
First Named Inventor	Ellison, Carl
Group Art Unit	2186
Examiner Name	Peikari, Behzad

Attorney Docket No: 42P09654C

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
BD	DE-4217444	12/03/1992	Toyohisa, Imada, et al.			
me	EP-473913	03/11/1992	Farrell, Joel A.			
u	EP-0600112	06/08/1994	Wimmer, Manfred D.			
u	EP-0930567	07/21/1999	Brewer, Jason M.			
el	EP-1030237	08/23/2000	Proudlar, John, et al.			
dr	EP-1146715	10/17/2001	Wang, Xin, et al.			
m	JP-2000076139	03/14/2000	Tanno, Masaaki, et al.			
dr	WO-0062232	10/19/2000	Headrick, Samuel P., et al.			
y	WO-0127723	04/19/2001	Vamvakas, Athanasia, et al.			
a	WO-0127821	04/19/2001	Chen, Liquan, et al.			
a	WO-0175564	10/11/2002	Herbert, Howard C., et al.			
u	WO-0175565	10/11/2001	Ellison, Carl M.			
a	WO-0175595	10/11/2001	Ellison, Carl M., et al.			
u	WO-02086684	10/31/2002	Proudlar, Graeme J.			
u	WO-0217555	02/28/2002	Ford, Warwick			
u	WO-9729567	08/14/1997	Gressel, Carmi, et al.			
a	WO-9834365	08/06/1998	Devanbu, Premkumar T., et al.			
u	WO-9844402	10/08/1998	Bramhill, Ian D., et al.			
u	WO-9905600	02/04/1999	Garst, Blaine, et al.			
a	WO-9909482	01/15/2002	Bausch, Jean			
u	WO-9957863	11/11/1999	Hayes Jr., Kent F., et al.			

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-Issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
u		BERG, CLIFF, "How Do I Create a Signed Applet?", Dr. Dobb's Journal, (08/1997), 1-9	
a		BRANDS, STEFAN, "Restrictive Blinding of Secret-Key Certificates", SPRINGER-VERLAG XP002201306, (1995), Chapter 3	
u		CHIEN, ANDREW A., et al., "Safe and Protected Execution for the Morph/AMRM Reconfigurable Processor", 7th Annual IEEE Symposium, FCCM '99 Proceedings, XP010359180, ISBN 0-7695-0375-6, Los Alamitos, CA, (4/21/1999), 209-221	

EXAMINER

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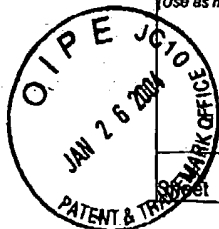
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Applicant Number	10/683542
Filing Date	October 10, 2003
First Named Inventor	Ellison, Carl
Group Art Unit	2186
Examiner Name	Peikari, Behzad

Attorney Docket No: 42P09654C

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
dl		✓ COMPAQ COMPUTER CORPORATION, et al., "Trusted Computing Platform Alliance (TCPA) Main Specification Version 1.1a", (12/2001), 1-321	
q		✓ DAVIDA, GEORGE I., et al., "Defending Systems Against Viruses through Cryptographic Authentication", <u>Proceedings of the Symposium on Security and Privacy</u> , IEEE Comp. Soc. Press, ISBN 0-8186-1939-2, (May 1989),	
q		GOLDBERG, ROBERT P., "Survey of Virtual Machine Research", <u>COMPUTER Magazine</u> , (06/1974), 34-35	
u		GONG, LI, et al., "Going Behind the Sandbox: An Overview of the New Security Architecture in the Java Development Kit 1.2", <u>Proceedings of the USENIX Symposium on Internet Technologies and Systems</u> , Monterey, CA, (12/1997),	
q		GUM, P. H., "System/370 Extended Architecture: Facilities for Virtual Machines", <u>IBM J. Research Development</u> , Vol 27, Number 6, (11/1983), 530-544	
u		HEINRICH, JOE, "MIPS R4000 Microprocessor User's Manual, Second Edition", Chapter 4 "Memory Management", (6/11/1993), 61-97	
u		✓ IBM, "Information Display Technique for a Terminate Stay Resident Program IBM Technical Disclosure Bulletin", TDB-ACC-No. NA9112156, Vol. 34, Issue 7A, (12/1/1991), 156-158	
u		INTEL, "Intel386 DX Microprocessor 32-Bit CMOS Microprocessor With Integrated Memory Management", (1995), 5-56	
q		✓ KARGER, PAUL A., et al., "A VMM Security Kernel for the VAX Architecture", <u>Proceedings of the Symposium on Research in Security and Privacy</u> , XP010020182, ISBN 0-8186-2060-9, Boxborough, MA, (5/7/1990), 2-19	
u		✓ KASHIWAGI, KAZUHIKO, et al., "Design and Implementation of Dynamically Reconstructing System Software", <u>Software Engineering Conference</u> , Proceedings 1996 Asia-Pacific Seoul, South Korea 4-7 Dec. 1996, Los Alamitos, CA USA, IEEE Comput. Soc. US, ISBN 0-8186-7638-8, (1996),	
u		LAWTON, KEVIN, et al., "Running Multiple Operating Systems Concurrently on an IA32 PC Using Virtualization Techniques", <a href="http://www.plex86.org/research/paper.txt">http://www.plex86.org/research/paper.txt</a> , (11/29/1999), 1-31	
q		✓ LUKE, JAHN, et al., "Replacement Strategy for Aging Avionics Computers", <u>IEEE AES Systems Magazine</u> , XP002190614, (March 1999),	
q		✓ MENEZES, OORSCHOT, "Handbook of Applied Cryptography", CRC Press LLC, USA XP002201307, (1997), 475	
u		MOTOROLA, "M68040 User's Manual", (1993), 1-1 to 8-32	
u		✓ RICHT, STEFAN, et al., "In-Circuit-Emulator Wird Echtzeittauglich", <u>Elektronik</u> , Franzis Verlag GMBH, Munchen, DE, Vol. 40, No. 16, XP000259620, (100-103), 8-6-1991	
u		✓ ROBIN, JOHN S., et al., "Analysis of the Pentium's Ability to Support a Secure Virtual Machine Monitor", <u>Proceedings of the 9th USENIX Security Symposium</u> , XP002247347, Denver, Colorado, (8/14/00), 1-17	

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u		ROSENBLUM, M. , "Virtual Platform: A Virtual Machine Monitor for Commodity PC", <u>Proceedings of the 11th Hotchips Conference, (8/17/1999), 185-196</u>	
u		SAEZ, SERGIO , et al., "A Hardware Scheduler for Complex Real-Time Systems", <u>Proceedings of the IEEE International Symposium on Industrial Electronics, XP002190615, (July 1999), 43-48</u>	
u		SHERWOOD, TIMOTHY , et al., "Patchable Instruction ROM Architecture", <u>Department of Computer Science and Engineering, University of California, San Diego, La Jolla, CA, (Nov. 2001),</u>	

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Application Number	10/683,542
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First Named Inventor	Carl M. Ellison
Group Art Unit	2186
Examiner Name	Mano Padmanabhan

Sheet 1 of 4

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
	DE DE4217444	12/03/1992	Toyohisa, Imada, et al.			
	EP EP0473013	03/11/1992	Farrell, Joel A.			
	EP EP0600112	06/08/1994	Wimmer, Manfred D.			
u	EP-EP0892521	01/20/1999	Zamek, Steven			
	EP EP0930567	07/21/1999	Brewer, Jason M.			
u	EP-EP0961193	12/01/1999	Laczko, Sr., Frank L.			
u	EP-EP0965902	12/22/1999	Force, Gordon, et al.			
	EP EP1030237	08/23/2000	Proudlar, John, et al.			
	EP-EP1055989	11/29/2000	Proudlar, Graeme J., et al.			
u	EP-EP1056014	11/29/2000	Proudlar, Graeme J., et al.			
u	EP-EP1085396	03/21/2001	Proudlar, Graeme J., et al.			
	EP-EP1146715	10/17/2001	Wang, Xin, et al.			
u	EP-EP1271277	01/02/2003	Behar, Yaachov			
	JP JP2000076130	03/14/2000	Tanno, Masaaki, et al.			
u	WO-WO0021238	04/13/2000	Drews, Paul C.			
	WO-WO0062232	10/19/2000	Headrick, Samuel P., et al.			
	WO-WO0127723	04/19/2001	Vamvakas, Athanasia, et al.			
	WO-WO0127821	04/19/2001	Chen, Liqun, et al.			
u	WO-WO0163994	08/30/2001	Van Sant, Glen, et al.			
	WO-WO0175564	10/11/2002	Herbert, Howard C., et al.			
	WO-WO0175565	10/11/2001	Ellison, Carl M.			
	WO-WO0175595	10/11/2001	Ellison, Carl M., et al.			
u	WO-WO0201794	01/03/2002	Ellison, Carl			
u	WO-WO02060121	08/01/2002	Grawrock, David W.			
	WO-WO02006684	10/31/2002	Proudlar, Graeme J.			
	WO-WO0217555	02/28/2002	Ford, Warwick			
u	WO-WO03058412	07/17/2003	Glew, Andrew, et al.			
u	WO-WO9524696	09/14/1995	Mooney, David M., et al.			
	WO-WO9729587	08/14/1997	Gressel, Carmi, et al.			
u	WO-WO9812620	03/26/1998	Nishiuchi, Taiki, et al.			
	WO-WO9834365	06/00/1998	Devanbu, Premkumar T., et al.			
	WO-WO9844402	10/08/1998	Bramhill, Ian D., et al.			
	WO-WO9905600	02/04/1999	Garst, Blaine, et al.			
	WO-WO9909482	01/15/2002	Bausch, Jean			
u	WO-WO9918511	04/15/1999	Edrich, David R.			

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Application Number	10/683,542
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First Named Inventor	Carl M. Ellison
Group Art Unit	2186
Examiner Name	<del>Mano Padmanabhan</del>

Attorney Docket No: 42390.P9654C

Sheet 2 of 4

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
	WO-WO9957863	11/11/1999	Hayes Jr., Kent F., et al.			
	WO-WO9965579	12/23/1999	Bond, Eugene T.			

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BERG, CLIFF, "How Do I Create a Signed Apple?", <u>Dr. Dobb's Journal</u> , (08/1997), 1-9	
		BRANDS, STEFAN, "Restrictive Blinding of Secret Key Certificates", SPRINGER-VERLAG XP002201306, (1995), Chapter 3	
		CHIEN, ANDREW A., et al., "Safe and Protected Execution for the Morph/AMRM Reconfigurable Processor", 7th Annual IEEE Symposium, FCCM '99 Proceedings, XP010359180, ISBN 0-7695-0375-6, Los Alamitos, CA, (4/21/1999), 209-221	
		COMPAQ COMPUTER CORPORATION, "Trusted Computing Platform Alliance (TCPA) Main Specification Version 1.1a", XP002272822, (1/25/2001), 1-321	
hr		COULOURIS, GEORGE, et al., "Distributed Systems, Concepts and Designs", 2nd Edition, (1994), 422-424	
hr		CRAWFORD, JOHN, "Architecture of the Intel 80386", Proceedings of the IEEE International Conference on Computer Design: VLSI in Computers and Processors (ICCD '86), (October 6, 1986), 155-160	
		DAVIDA, GEORGE I., et al., "Defending Systems Against Viruses through Cryptographic Authentication", Proceedings of the Symposium on Security and Privacy, IEEE Comp. Soc. Press, ISBN 0-8186-1939-2, (May 1989),	
hr		FABRY, R.S., "Capability-Based Addressing", Fabry, R.S., "Capability-Based Addressing," Communications of the ACM, Vol. 17, No. 7, (July 1974), 403-412	
hr		FRIEDER, GIDEON, "The Architecture And Operational Characteristics of the VMX Host Machine", The Architecture And Operational Characteristics of the VMX Host Machine, IEEE, (1982), 9-16	
		GOLDBERG, ROBERT P., "Survey of Virtual Machine Research", <u>COMPUTER Magazine</u> , (06/1974), 34-35	
		GONG, LI, et al., "Going Behind the Sandbox: An Overview of the New Security Architecture in the Java Development Kit 1.2", Proceedings of the USENIX Symposium on Internet Technologies and Systems, Monterey, CA, (12/1997),	
		GUM, P. H., "System/370 Extended Architecture: Facilities for Virtual Machines", IBM J. Research Development, Vol 27, Number 6, (11/1983), 530-544	
		HEINRICH, JOE, "MIPS R4000 Microprocessor User's Manual, Second Edition", Chapter 4 "Memory Management", (6/11/1993), 61-97	
hr		HP MOBILE SECURITY OVERVIEW, "HP Mobile Security Overview", (Sept. 2002), 1-10	

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Group Art Unit	2186
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		IBM, "Information Display Technique for a Terminate Stay Resident Program IBM Technical Disclosure Bulletin", TDB-ACC-No. NA9112156, Vol. 34, Issue 7A, (12/1/1991), 156-158	
h		IBM CORPORATION, "IBM ThinkPad T30 Notebooks", IBM Product Specification, located at <a href="http://www-1.ibm.com/services/files/cisco_t30_spec_sheet_070202.pdf">www-1.ibm.com/services/files/cisco_t30_spec_sheet_070202.pdf</a> , last visited June 23, 2004, (July 2, 2002), 1-6	
h		INTEL, "IA-32 Intel Architecture Software Developer's Manual", Volume 3: System Programming Guide, Intel Corporation - 2003, 13-1 through 13-24	
		INTEL, "Intel 386 DX Microprocessor 32-Bit CMOS Microprocessor With Integrated Memory Management", (1995), 5-56	
h		INTEL CORPORATION, "IA-64 System Abstraction Layer Specification", Intel Product Specification, Order Number 245359-001, (01/2000), 1-112	
h		INTEL CORPORATION, "Intel 82802AB/82802AC Firmware Hub (FWH)", Intel Product Datasheet, Document Number 290658-004, (November 2000), 1-6, 17-28	
h		INTEL CORPORATION, "Intel IA-64 Architecture Software Developer's Manual", Volume 2: IA-64 System Architecture, Order Number 245318-001, (01/2000), i, ii, 5.1-5.3, 11.1-11.8, 11.23-11.26	
		KARGER, PAUL A., et al., "A VMM Security Kernel for the VAX Architecture", Proceedings of the Symposium on Research in Security and Privacy, XP010020182, ISBN 0-8186-2060-9, Boxborough, MA, (5/7/1990), 2-19	
		KASHIWAGI, KAZUHIKO, et al., "Design and Implementation of Dynamically Reconstructing System Software", Software Engineering Conference, Proceedings 1996 Asia-Pacific Seoul, South Korea 4-7 Dec. 1996, Los Alamitos, CA USA, IEEE Comput. Soc. US, ISBN 0-8186-7638-8, (1996),	
		LAWTON, KEVIN, et al., "Running Multiple Operating Systems Concurrently on an IA32 PC Using Virtualization Techniques", <a href="http://www.plex86.org/research/paper.txt">http://www.plex86.org/research/paper.txt</a> , (11/29/1999), 1-31	
		LUKE, JAHN, et al., "Replacement Strategy for Aging Avionics Computers", IEEE AES Systems Magazine, XP002190614, (March 1999),	
		MENEZES, ALFRED J., et al., "Handbook of Applied Cryptography", CRC Press LLC, USA XP002201307, (1997), 475	
h		MENEZES, ALFRED J., et al., "Handbook of Applied Cryptography", CRC Press Series on Discrete Mathematics and its Applications, Boca Raton, FL, XP002165287, ISBN 0849385237, (Oct. 1996), 403-405, 506-515, 570	
		MOTOROLA, "M68040 User's Manual", (1993), 1-1 to 8-32	
h		NANBA, S., et al., "VM/4: ACOS-4 Virtual Machine Architecture", VM/4: ACOS-4 Virtual Machine Architecture, IEEE, (1985), 171-178	
		RICHT, STEFAN, et al., "In-Circuit Emulator Wird Echtzeitauglich", Elektronik, Franzis Verlag GMBH, Munchen, DE, Vol. 40, No. 16, XP000259620, (100-103), 8-6-1991	

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		ROSENBLUM, M., "Virtual Platform: A Virtual Machine Monitor for Commodity PC", <u>Proceedings of the 11th Hotchips Conference</u> , (8/17/1999), 185-196	
h		RSA SECURITY, "Hardware Authenticators", <u>www.rsasecurity.com/node.asp?id=1158</u> , 1-2	
h		RSA SECURITY, "RSA SecurID Authenticators", <u>www.rsasecurity.com/products/secuid/datasheets/SID_DS_0103.pdf</u> , 1-2	
h		RSA SECURITY, "Software Authenticators", <u>www.rsasecurity.com/node.asp?id=1313</u> , 1-2	
		SAEZ, SERGIO, et al., "A Hardware Scheduler for Complex Real Time Systems", <u>Proceedings of the IEEE International Symposium on Industrial Electronics</u> , XP002190615, (July 1999), 43-48	
h		SCHNEIER, BRUCE, "Applied Cryptography: Protocols, Algorithm, and Source Code in C", Wiley, John & Sons, Inc., XP002939871; ISBN 0471117099, (Oct. 1995), 47-52	
h		SCHNEIER, BRUCE, "Applied Cryptography: Protocols, Algorithm, and Source Code in C", Wiley, John & Sons, Inc., XP002138607; ISBN 0471117099, (Oct. 1995), 56-65	
h		SCHNEIER, BRUCE, "Applied Cryptography: Protocols, Algorithms, and Source Code C", Wiley, John & Sons, Inc., XP002111449; ISBN 0471117099, (Oct. 1995), 169-187	
h		SCHNEIER, BRUCE, "Applied Cryptography: Protocols, Algorithms, and Source Code in C", 2nd Edition; Wiley, John & Sons, Inc., XP002251738; ISBN 0471128457, (Nov. 1995), 28-33; 176-177; 216-217; 461-473; 518-522	
		SHERWOOD, TIMOTHY, et al., "Patchable Instruction ROM Architecture", Department of Computer Science and Engineering, University of California, San Diego, La Jolla, CA, (Nov. 2001),	

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